

ThoughtWorks®

# BACKSTOPJS

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# 关于我

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## 杜雅迪

ThoughtWorks软件质量咨询师，主要负责敏捷软件开发团队软件质量保证工作。熟悉Web自动化测试，有着丰富的测试工具、自动化测试框架运用的经验，善于结合敏捷实践制定测试策略，测试分析、实施以及流程改进工作。



# 目录

- 1 什么是视觉测试
- 2 视觉测试原理和步骤
- 3 自动化工具BackstopJS介绍
- 4 Demo演示
- 5 总结与价值
- 6

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# Web测试一些痛点

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# 各类 ICON



wxb报表



wxb标王



wxb工具



wxb明星店铺



wxb品牌宝



wxb账户



wxb主页



wxb搜索推广



wxb定位



聚专场



iconfont-youhuiq...



iconfont-xingxing...



iconfont-mingpian



iconfont-shouji



iconfont-riyongba...



iconfont-phone



iconfont-qicheyo...



iconfont-jingxihu...



iconfont-jiafangji...



iconfont-jixieqimo



iconfont-shumaji...



iconfont-meizhua...



iconfont-huanggu...



iconfont-shipin



iconfont-huagong...



iconfont-tongzhu...



iconfont-wujingo...



iconfont-xiangjia...



iconfont-xiebaop...



iconfont-yejinkua...



iconfont-yiqiyibiao



iconfont-yundong...



iconfont-zhaomin...



iconfont-gongyic...



iconfont-gangcai



iconfont-fuzhuan...



iconfont-fuwushic...



iconfont-fangzhip...



iconfont-diangon...



iconfont-baozhua...



iconfont-anquanf...



个人实名认证



换货保障



交期保障



金牌采购商

The screenshot shows a survey editor interface. On the left is a dark sidebar with navigation options like '查看更多模板' (View more templates), '分类' (Categories), '常用推荐' (Popular recommendations), '调查问卷' (Questionnaires), '报名申请' (Registration application), '订单支付' (Order payment), '登记汇总' (Registration summary), '考核测试' (Assessment test), '专题' (Special topics), and '双11专场' (Double 11 special). Below these are buttons for '创建空白表单' (Create blank form) and '从Excel创建表单' (Create form from Excel). The main area displays a '顾客满意度调查' (Customer Satisfaction Survey) template with a background image of a chef's hands. The survey content includes: 'Listening to You CUSTOMER SURVEY Thank U for you time', '顾客满意度调查', 'Q1. 请问, 您是否有过该店消费的经验?' (Do you have experience consuming at this store?), with radio buttons for '有' (Yes) and '没有' (No); and 'Q2. 请问, 您在该店平均每次的消费金额?' (What is your average consumption per visit to this store?), with radio buttons for '20元及以下' (20 yuan or below) and '21-50元' (21-50 yuan). At the bottom right, there are '取消' (Cancel) and '选用' (Select) buttons.

The screenshot shows a '产品满意度调查问卷' (Product Satisfaction Survey) form. The header features the text 'Questionnaire 问卷调查' over a background image of hands holding a document. The main question is '总的来说, 您对我们产品的满意度如何' (Overall, how satisfied are you with our product?). Below the question are two radio button options: '非常满意' (Very satisfied) and '满意' (Satisfied). At the bottom right, there is a '取消' (Cancel) button.

The screenshot shows a promotional banner for '尝鲜去!' (Taste Fresh!). The background features fresh vegetables like carrots and tomatoes. The text '尝鲜去!' is prominently displayed in orange, flanked by 'X' symbols. Below it, a white arrow points right with the text '正出发' (Starting now). The banner is framed by a white border.

试吃报名

==宝宝试吃报名开始啦==

**better** HOME PURCHASE ABOUT US BLOG FAQ SIGN IN

## Buying a house is a big deal.

We've made it simple.

**Let's go!**  
We're on a mission to eliminate the inefficiencies of the mortgage industry. We can't wait to show you how fast and easy home finance can be.

GET PRE-APPROVED  
CHECK TODAY'S RATES

Shop whenever

Send us a message

### Open house on Sunday? Get pre-approved Saturday night

Our technology is always available, even on the weekends.

GET STARTED

Find out why we're better

### Let's start with some numbers

Send us a message

## Buying a house is a big deal.

We've made it simple.

**Let's go!**  
We're on a mission to eliminate the inefficiencies of the mortgage industry. We can't wait to show you how fast and easy home finance can be.

GET PRE-APPROVED  
CHECK TODAY'S RATES

Shop whenever Send us a message

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# 视觉测试

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# 概念

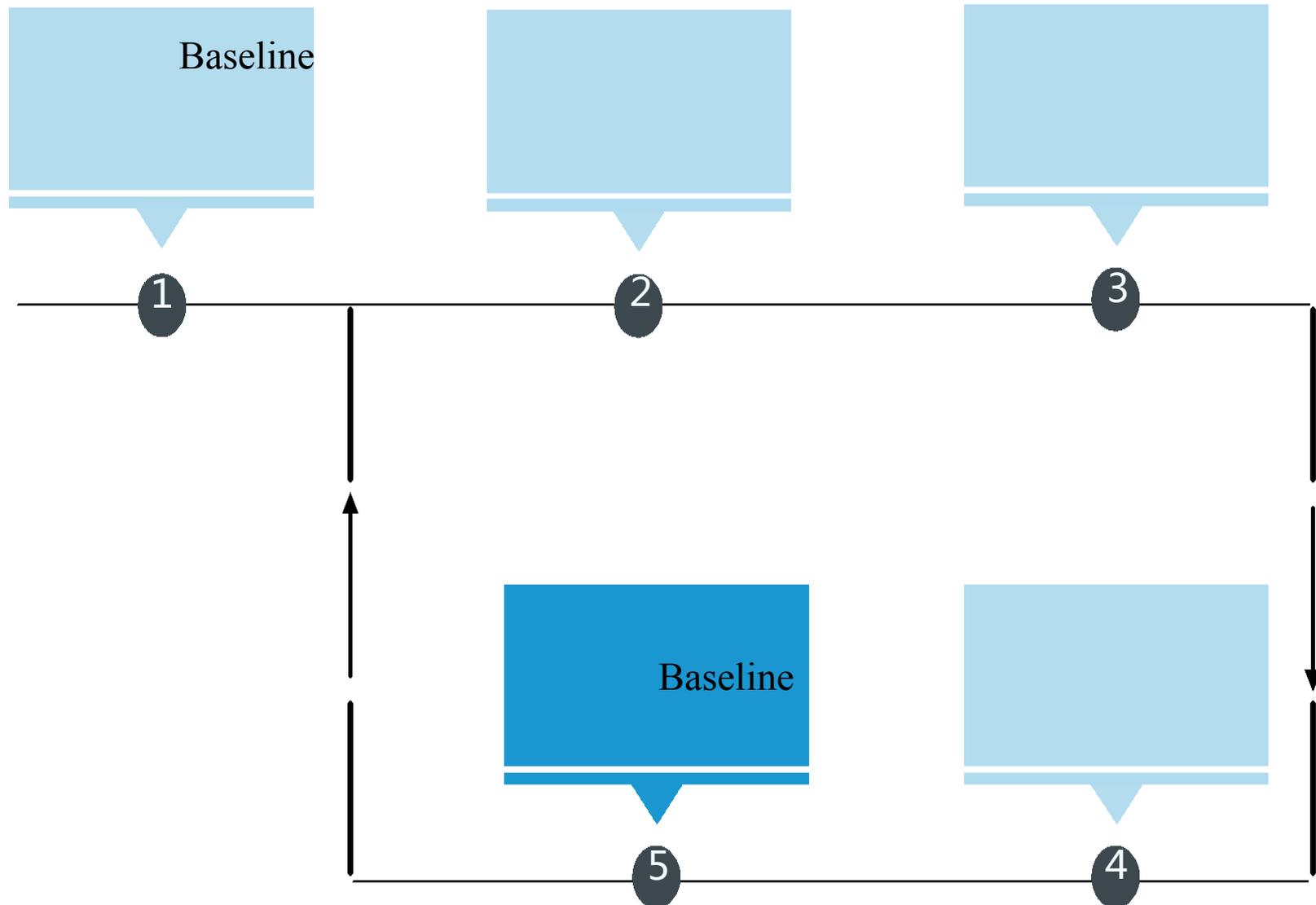
---

视觉测试是一种质量保证方法。

通过获取和对比应用的图形界面的办法，结合敏捷迭代开发的理念，产生的一种针对界面的自动化测试方法来保证产品在设计 and 实现上的正确性。



# 原理和步骤



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# BackstopJS

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# 特点

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- DOM
- CasperJS
- 
- 
- 

web

- PhantomJS SlimerJS
- CLI & Html

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# 环境搭建

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- 

```
$ npm install backstopjs
```

- 

- backstop.json

```
$ backstop genConfig
```

- **Baseline**

```
$ backstop reference
```

- 

```
$ backstop test
```

- 

- **Baseline**

```
$ backstop approve
```

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# 配置介绍

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## 视窗大小

设置各种你所要求屏幕尺寸，可以多个，但至少一个

```
"viewports": [  
  {  
    "name": "iphone",  
    "width": 320,  
    "height": 480  
  },  
  {  
    "name": "ipad",  
    "width": 568,  
    "height": 1024  
  },  
  {  
    "name": "browser",  
    "width": 1024,  
    "height": 768  
  }  
],
```

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# 配置介绍

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## 测试场景

url:

配置被测应用地址

referenceUrl:

配置生产环境地址

selector:

测试区域，支持CSS选择器，  
工具会将选择器制定地方截屏

```
"scenarios": [  
  {  
    "label": "Allianz homepage",  
    "url": "http://localhost:8000/",  
    "referenceUrl": "https://www.allianz.com/",  
    "hideSelectors": [],  
    "removeSelectors": [],  
    "selectorExpansion": true,  
    "selectors": [  
      "body"  
    ],  
    "readyEvent": null,  
    "delay": 500,  
    "misMatchThreshold" : 0.1,  
    "requireSameDimensions" : true,  
    "onBeforeScript": "onBefore.js",  
    "onReadyScript": "onReady.js"  
  }  
],
```

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# 配置介绍

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## 其他配置

path:

各种文件存放地址

engine:

测试用的浏览器引擎

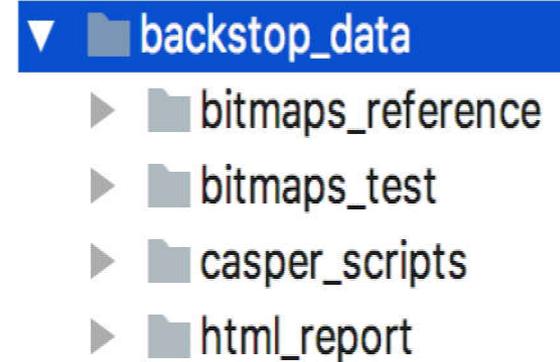
report:

生成报告格式

debug:

是否打印测试日志

```
"paths": {  
  "bitmaps_reference":  
  "bitmaps_test":  
  "casper_scripts":  
  "html_report":  
  "ci_report":  
},  
"casperFlags": [],  
"engine": "phantomjs",  
"report": ["browser"],  
"debug": false
```



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# Demo 演示

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Project visual-test-backstopjs

- visual-test-backstopjs ~/learn/vi
  - .idea
  - backstop\_data
  - node\_modules
  - backstop.json
  - External Libraries

Search Everywhere Double ⌘

Go to File ⌘O

Recent Files ⌘E

*demo*

Navigation Bar ⌘↑

Drop files here to open

Terminal

```

+ CasperJS: Comparison config file updated.
- Bitmap file generation completed.
COMMAND | Executing core for `report`
→ visual-test-backstopjs
  
```

6: TODO Terminal Event Log

Platform and Plugin Updates: IntelliJ IDEA is ready to update. (11 minutes ago) n/a



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# 回顾与总结

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# 注意点与价值体现

切记：

- 
- 

价值：

- QA
- 
-

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# THANK YOU

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